

area along one edge of said upper surface thereof, positioning a second preselected length of said coated matrix/blanket in an overlapping orientation with said exposed adhesive area of said first positioned length of said coated matrix/blanket, tightly affixing said adhesive lower surface of said second length to said exposed adhesive area of said first length, and successively positioning and tightly affixing together a plurality of additional lengths of said coated matrix/blanket in overlapping orientation to form a substantially continuous composite structure with high strength and exceptional durability.

Claim 2 (original): A method of forming a continuous composite structure according to Claim 1 including the step of applying pressure along said overlapped adhesive surfaces of adjoining lengths of said coated matrix/blanket to form a tight bond therebetween.

Claim 3 (original): A method of forming a continuous composite structure according to Claim 2 wherein pressure is applied along said overlapped adhesive surfaces immediately upon the positioning of each succeeding length of said coated matrix/blanket in an overlapped relationship.

Claim 4 (original): A method of forming a continuous composite structure according to Claim 2 including applying rolling pressure to said overlapped adhesive surfaces.

Claim 5 (original): A method of forming a continuous composite structure according to Claim 2 wherein pressure first is applied along a leading edge of said length of said coated matrix/blanket, followed by applying pressure intermediate of said length, and changing said intermediate pressure to rolling pressure along said overlapped adhesive surfaces over substantially the full length thereof.

Claim 6 (original): A method of forming a continuous composite structure according to Claim 1 including the step of positioning said coated matrix/blanket lengths across a ditch.

Claim 7 (original): A method of forming a continuous composite structure according to Claim 2 wherein said positioning of said coated matrix/blanket lengths and applying pressure thereto are coordinated in a preselected sequence.

Claims 8-11 (canceled)

Claim 12 (currently amended): Mobile continuous structure forming apparatus including a supporting portion, a material supplying portion, a mixing portion, a matrix forming portion and a control portion; said supporting portion including a plurality of spaced upstanding frame members, a plurality of generally horizontally disposed frame members joining adjacent upper and lower ends of said upstanding frame members; said material supplying portion including a plurality of reservoirs including a first liquid reactive resin forming material and a particulate solid additive material, said reservoirs operatively connected with said supporting portion, said reservoirs being connected independently with said mixing portion; said mixing portion including an elongated mixing chamber adjustably disposed adjacent said supporting portion to mix said additive particles with said first liquid resin forming material substantially continuously and form a substantially uniform mixture thereof while encapsulating substantially all of said additive particles with said first liquid resin forming material; said matrix forming portion including first mixture distributing means extending adjustably downwardly from said mixing chamber and being disposed adjacent an outlet thereof to advance a porous blanket through said liquid resin/additive mixture and migrate part of said mixture through said blanket substantially uniformly and form a continuous resin matrix within said blanket [with] and form adhesive outer surfaces on said blanket, second mixture distributing means disposed adjacent said first mixture distributing means for applying a thin coating of a preselected substantially immediately curing resin forming material over a final substrate surface, positioning means disposed adjacent said second mixture distributing means for placement of a structure in a preselected final configuration and advance a coated matrix/blanket into a final configuration on said coated [base] substrate surface, said positioning means including a cantilevered extendable arm assembly pivotally connected with said supporting portion, elongated structure grasping means disposed on said arm assembly, submersible guide means and mixture distributing means disposed adjacent a free end of said arm assembly, pressure applying means disposed adjacent said positioning means applying pressure to said matrix/blanket to

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tightly affix said coated matrix/blanket to said coated [base]
substrate surface; said control portion including programmable
memory means, coordinating means, sensing means, actuating means,
and circuitry transmitting signals from said sensing means to said
5 coordinating means for comparison with said memory means and
activation of said actuating means to form and place a continuous
structure into a preselected final configuration while it is
flexible and adhesive and form a water impervious structure
thereon.

10 Claims 13-20 (canceled)

Claim 21 (new): Mobile continuous structure forming
apparatus according to Claim 12 wherein said pressure applying
means includes roller means.

15 Claim 22 (new): Mobile continuous structure forming
apparatus according to Claim 12 wherein said positioning means
includes sensing means and actuating means.

Claim 23 (new): Mobile continuous structure forming
apparatus according to Claim 12 wherein said positioning means
extends from said supporting portion.

20 Claim 24 (new): Mobile continuous structure forming
apparatus according to Claim 23 wherein said positioning means
includes elongated structure grasping means translatably movable
along a generally horizontally disposed frame section.

25 Claim 25 (new): Mobile continuous structure forming
apparatus according to Claim 24 including pressure applying means
disposed along one edge of said frame section.

30 Claim 26 (new): Mobile continuous structure forming
apparatus according to Claim 21 wherein said pressure applying
means includes spaced roller means independently movable in a
vertical plane.

Claim 27 (new): Mobile continuous structure forming
apparatus according to Claim 24 wherein at least one of said
roller means includes reversible driven roller means.

35 Claim 28 (new): Mobile continuous structure forming
apparatus according to Claim 12 wherein said elongated structure
grasping means includes a pair of cooperating hinged sections.

Claim 29 (new): Mobile continuous structure forming
apparatus according to Claim 24 wherein said elongated structure

grasping means extends between and travels along spaced parallel side rails of said frame section.

5 Claim 30 (new): Mobile continuous structure forming apparatus according to Claim 29 including control means coordinating the travel of said elongated structure grasping means to equalize the tension across a structure being advanced along a preselected path.

10 Claim 31 (new): Mobile continuous structure forming apparatus according to Claim 12 including control means coordinating the operation of said pressure applying means with the travel of said elongated structure grasping means.

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